

ASSIGNMENT 4

Textbook Assignment: "Maintenance/COSAL." chapter 8, pages 8-1 through 8-3, and 8-5 through 8-7. You will also need to refer to the following publications: *Certification Plan for 2M/ATE Program*, and *Coordinated Shipboard Allowance List (COSAL) Users Manual*. Additional information on these publications is given in the references for chapter 8.

- 4-1. Which of the following are responsibilities of senior personnel in maintaining shipboard electronics equipments?
1. Assigning people wisely and training them well
 2. Establishing effective schedules for routine checks and tests
 3. Ensuring that allowed parts and tools are maintained and that all pertinent forms and publications are available
 4. All of the above
- 4-2. What are the three levels of equipment maintenance performed by the Navy?
1. Divisional, departmental, and organizational
 2. Organizational, intermediate, and depot
 3. Organizational, shipyard, and manufacturer
 4. Departmental, organizational, and shipyard
- 4-3. Which level of maintenance involves work on material requiring major overhaul or a complete rebuilding of items, from parts through entire end items?
1. Departmental
 2. Depot
 3. Intermediate
 4. Organizational
- 4-4. Which level of maintenance involves work such as inspecting, servicing, and replacing parts and minor assemblies, performed by user organizations on their own equipment?
1. Divisional
 2. Intermediate
 3. Organizational
 4. Shipyard
- 4-5. Which level of work is the responsibility of and is performed by designated maintenance activities for direct support of using organizations?
1. Depot
 2. Intermediate
 3. Organizational
 4. Shipyard
- 4-6. Which level of work is normally performed by naval air rework facilities, depot field teams, naval ammunition depots, naval construction battalion centers, contractor depot level rework activities, commercial facilities, or Navy shipyards?
1. Depot
 2. Intermediate
 3. Organizational
 4. Shipyard

4-7. Which level of maintenance is normally performed by aircraft carriers, tenders in support of other ships, public works departments, and designated shore activities?

1. Departmental
2. Depot
3. Intermediate
4. Organizational

4-8. Operational maintenance is the care and (a) major/minor maintenance of equipment using procedures that (b) do/do not require detailed technical knowledge of equipment and/or system functions and is performed by (c) operator/technical personnel.

1. (a) minor (b) do (c) technical
2. (a) minor (b) do not (c) operator
3. (a) major (b) do not (c) technical
4. (a) major (b) do (c) technical

4-9. Which of the following purposes pertain(s) to operational maintenance?

1. To make operators more aware of the state of readiness of the equipment
2. To reduce the delays that can occur if a technician is called every time a simple adjustment is needed
3. To release technicians for more complicated work
4. All of the above

4-10. Which of the following is the ultimate objective of preventive maintenance?

1. To check the performance and operability of equipment and systems
2. To detect and correct faults early so they will not result in equipment failure later
3. To maintain equipment at least at a minimum level of readiness
4. To maintain technical expertise on all ship's equipment and systems

4-11. In general, equipment failures are governed by which of the following factors?

1. The type and age of the equipment and/or systems
2. Manufacturers' defects, quality of installation, and the type of equipment and/or systems
3. The complexity of the equipment, the demands placed upon it, and the abuse to which it is subjected
4. The lack of trained operator and/or technical personnel, and the age of the equipment and/or systems

4-12. Which of the following statements best describes the responsibilities of the supervisor toward his or her assigned work center or group equipment and systems?

1. The supervisor has only the responsibility of leading his or her personnel. He or she does not need to have any knowledge of the equipments
2. The supervisor should have adequate knowledge of all the electronic equipments and systems for which he or she is responsible
3. The supervisor must be proficient in all of the assigned equipments to supervise the work center or group

- 4-13. A good background knowledge of all equipments and systems combined with your maintenance experience and positive and confident attitude will contribute to success in which of the following areas?
1. Providing support to the ship's overall mission
 2. The training of your technicians (and yourself)
 3. Minimizing equipment or system down time
 4. All of the above
- 4-14. Which of the following initiatives is/are provided by the 2M program?
1. Personnel and activity certification (conducted by fleet and type commanders)
 2. Proper training in the art of miniature and microminiature repair
 3. Authorization to procure the tools and equipment to carry out the goals of the program
 4. All of the above
- 4-15. Normally, 2M repairs made to components at repair activities are based on a maintenance level determined by which of the following factors?
1. The activity's manpower (2M technicians)
 2. The activity's own determination
 3. The Allowance Parts List SM&R code
 4. The Allowance Parts List EIC number
- 4-16. In which, if any, of the following situations may 2M repairs be made on components coded for discard or depot level maintenance?
1. As a routine requirement when requested for that component
 2. When an emergency situation requires repair of that component
 3. When the repair activity's workload permits
 4. None of the above
- 4-17. Which of the following is the primary method for ensuring QA in the 2M program?
1. Quarterly inspections of personnel and repair sites by TYCOM personnel
 2. Quarterly inspection of personnel and repair sites by NAVSEA personnel
 3. Semi-annual certification of personnel and repair sites
 4. Annual certification of personnel and repair sites
- 4-18. To have a certified 2M repair station, a site must have a minimum of how many certified 2M repair technicians on board for each installed 2M repair station?
1. 1
 2. 2
 3. 3
 4. 4
- 4-19. The 2M program has how many levels of primary certification?
1. 5
 2. 6
 3. 3
 4. 4
- 4-20. For several months your personnel have ordered parts, but have not received the parts because of "NIS" or "NC" status, Which of the following would be the most likely cause?
1. Consistent use of the same parts
 2. Incorrect stock numbers were used on requisition forms
 3. COSAL is not current with onboard equipments
 4. Supply has no funds to issue repair parts

4-21. Which of the following is a good publication to help you gain an indepth understanding of COSAL?

1. SPCCINST 4441.170
2. NAVSUP P-485
3. NAVSUP Publication 409
4. NAVSO P-3013

4-22. Which of the following is a description of how the COSAL is divided?

1. 3 parts with no sectional division
2. 3 parts; each part contains sections
3. 2 parts with no sectional division
4. 2 parts; each part contains sections

4-23. Part II of the COSAL contains all EXCEPT which of the following information?

1. Allowance Parts Lists (APLs)
2. Circuit Symbol Numbers (CSN)
3. Integrated Stock List (ISL)
4. Allowance Equipage Lists (AELs)

4-24. What part of the COSAL contains the various Stock Number Sequence Lists (SNSLs), Stock Number Cross Reference Lists, and lists of generally used, consumable, non-equipment related items?

1. Part I
2. Part II
3. Part III
4. Part IV

4-25. The summary of Effective Allowance Parts/Equipage Lists (SOEAPL) in Part I of the COSAL used on your ship lists the effective APLs that apply to which of the following ships?

1. All of the ships in the Navy
2. Only Navy ships of the same type as your ship
3. Specially designated ships
4. The specific ship for which the summary is published

4-26. Which of the following information is contained in the SOEAPL (Part I of COSAL)?

1. Numerical sequence listing of APLs
2. Numerical sequence listing of AELs
3. Numerical sequence listing of ACLs
4. All of the above

4-27. Which of the following describes the difference between the two sections of the COSAL index?

1. The information is the same; however, Section A lists equipment by service application, and Section B lists equipment by equipment name
2. The information is the same; however, Section A lists equipment by name, and Section B lists equipment by service application
3. Section A indexes APLs; Section B indexes AELs
4. Section B contains more detailed information than Section A

IN ANSWERING QUESTION 4-28, REFER TO FIGURE 3-C IN SPCCINST 4441.170.

4-28. What does the number "1" in column 5 of the index for AEL 7-670052808 indicate?

1. The quantity in use for each service application
2. The recommended allowance column that applies to your ship for this item
3. The AEL column number from which the allowance is determined
4. The required storeroom quantity for this equipage item

- 4-29. Which of the following identification numbers may be found in column 3 of COSAL index, Part I, Section A?
1. APL
 2. AEL
 3. ACL
 4. All of the above
- 4-30. Which of the following sections of the COSAL index. Part I, is/are arranged in sequence by EIC to APL/AEL?
1. Sections C and D
 2. Section D only
 3. Sections D and E
 4. Section E only
- 4-31. Which of the following sections of the COSAL. Part I, is/are arranged in sequence by APL/AEL to EIC?
1. Sections C and D
 2. Section C only
 3. Section D only
 4. Section E
- 4-32. The AILSIN (Automated Integrated Language System Identification Number) is a twelve-digit coding system used to identify shipboard functions to a manageable level. The AILSIN also includes a two-character code that provides a reference to a generic description of an equipment or component serving a particular function. This coding system will only be found in section C and E of the COSAL index, Part I.
1. True
 2. False
- 4-33. What does an APL number identify?
1. A group of related equipment
 2. A specific equipment/component
 3. A specific service application
 4. A general equipment category
- 4-34. Which of the following characteristics pertains to the APL?
1. It is a non-technical document
 2. It is prepared for individual equipments/components and their repair parts
 3. It lists the generic requirements for a ship
 4. Its data content is arranged by stock number
- 4-35. The APL identification number 57103200 applies to which of the following specific categories of equipment/components?
1. Ordnance Fire Control
 2. Electronics
 3. Both 1 and 2 above
 4. HME and Ordnance
- 4-36. Which of the following data may be found in the Reference/Symbol column of the APL?
1. Circuit symbol number
 2. Manufacturer's number
 3. Manufacturer's part number
 4. Each of the above
- 4-37. What information is contained in the Additional Data area of the APL?
1. Alternate APL/AEL numbers
 2. A code to segregate material into manageable groups of items having similar characteristics
 3. Lists of additional manuals and plan numbers as applicable or appropriate
 4. A general description, characteristics, and other identifying information concerning the equipment for which the APL is used

- 4-38. Which of the following statements best describes the Electronics APL?
1. It is a technical document prepared for multiple equipments and components and their parts
 2. It is a technical/repair document, prepared for multiple equipments and components and their parts
 3. It is a technical/repair document, prepared for individual equipments and components and their parts
 4. It is a repair parts listing, prepared for equipment systems only
- 4-39. Section B of the Electronics APL contains which of the following information?
1. Circuit symbol or part number breakdown data
 2. Part number/NSN data
 3. Characteristics data
 4. Allowance data
- 4-40. Which of the following information is contained in Section A of the Electronics APL?
1. Part number/NSN data
 2. Characteristics data
 3. Allowance data
 4. All of the above
- 4-41. In Section B of the Electronics APL, what code indicates user capability of replacing the items listed?
1. CSN
 2. SM&R
 3. FSCM
 4. Part MEC
- 4-42. Classified supplements to APLs are held by which of the following officers?
1. Commanding officer
 2. Operations officer
 3. Supply officer
 4. Classified materials officer
- 4-43. In the applicable Section B of the APL, what letter code indicates classified-by-association APLs?
1. C
 2. J
 3. X
 4. Z
- 4-44. Compared to other AELs, the portable electronic equipage lists have which of the following features?
1. They contain three sections
 2. The ID numbers all begin with 8
 3. They are identified with distinctive nomenclatures and numbers
- 4-45. The portable electronics equipage AEL numbering system is set up into groups, such as communications equipment, electronic test equipment, and so on. All the AEL numbers begin with (a) what number, followed by (b) how many number places, with each group having 1000 numbers assigned to it.
1. (a) 6- (b) eight
 2. (a) 6- (b) nine
 3. (a) 7- (b) nine
 4. (a) 7- (b) ten
- 4-46. Which of the following letters groups precedes the nomenclature for portable electronics equipage?
1. FSCM
 2. PEETE
 3. SCAT
 4. SPETE
- 4-47. Commercial equipment AELs are identified in which of the following ways?
1. By the FSCM only
 2. By the model number only
 3. By the FSCM and model number
 4. By the manufacturer's name and model number

- 4-48. The BALD allowance list page is provided in lieu of an APL/AEL page under which of the following circumstances?
1. When the APL/AEL contains restricted data and when the equipment covered is still under development
 2. Only when AEL/APL contains restricted data
 3. Only when the equipment is still under development
 4. When the AEL/APL page was not available at the time the COSAL was prepared
- 4-49. Miscellaneous Repair Parts APLs cover which of the following systems?
1. Piping
 2. Electrical
 3. Electronic and Ordnance
 4. All of the above
- 4-50. The SNSL-SRI is a listing of what?
1. Storeroom allowance items
 2. All installed equipment
 3. The authorized allowance of equipage
 4. All material used on the ship
- 4-51. In what sequence is the SNSL, COSAL Part III, Section A arranged?
1. Ascending in National Stock Number (NSN) sequence
 2. Descending in National Stock Number (NSN) sequence
 3. Ascending in National Item Identification Number (NIIN) sequence
 4. Descending in National Item Identification Number (NIIN) sequence
- 4-52. Which of the following listings becomes the postoverhaul SNSL?
1. ISL, Section 1
 2. ISL, Section 2
 3. SNSL, Section A
 4. SNSL, Section B
- 4-53. In what sequence are Operating Space Items (OSIs) listed in the COSAL Part III section of the SNSL?
1. Ascending NIIN
 2. Ascending NSN
 3. Federal Stock Class
 4. Equipment Identification Number
- 4-54. Which of the following numbers will be used in Section B of the COSAL, Part III OSI listing when an NSN for an item is not available?
1. T-NICNs only
 2. P-NICNs only
 3. T-NICNs and P-NICNs
 4. SNITs
- 4-55. Which of the following is the correct reference for locating the "translation" of the COSAL Part/Section codes?
1. COSAL Use and Maintenance Manual, Appendix A
 2. COSAL Use and Maintenance Manual, Appendix C
 3. NAVSUP Manual, Volume 1
 4. NAVSUP Manual, Volume 2
- 4-56. Which of the COSAL sections lists maintenance assistance modules in ascending NIIN sequence?
1. COSAL Part III, Section A
 2. COSAL Part III, Section B
 3. COSAL Part III, SNSL Section CR
 4. COSAL Part III, SNSL Section CF
- 4-57. Which of the COSAL sections lists ready service spares?
1. COSAL Part III, Section A
 2. COSAL Part III, Section B
 3. COSAL Part III, SNSL Section CR
 4. COSAL Part III, SNSL Section CF
- 4-58. All items coded 6 in the APL/AEL notes column are listed in what section of the SNSL?
1. A
 2. B
 3. CF
 4. CR

4-59. A troubleshooting guide covering problems that you may encounter during the four basic steps of ordering a part, from using the technical manual to filling out the Form 1250, is contained in what chapter of SPCCINST 4441.170?

1. 1
2. 2
3. 3
4. 4

4-60. In addition to the Configuration Change Form (CCF) OPNAV 4790/CK, the allowance Change Request (ACR) NAVSUP 1220-2, and the Technical Manual Deficiency/Evaluation Report (TMDER), NAVSEA Form 5600/2, which of the following forms can be used to report configuration changes and COSAL problems that could adversely affect shipboard maintenance?

1. Supply Deficiency Report (SDR), NAVSUP 6790/7B
2. Planned Maintenance System Feedback Report (PMSFBR), OPNAV 6790/70
3. Fleet COSAL Feedback Report (FCFBR), NAVSUP Form 1371
4. Both 2 and 3 above

4-61. The Fleet COSAL Feedback Report (FCFBR), NAVSUP Form 1371, is used primarily to report which of the following information?

1. Technical manual deficiencies
2. APL corrections
3. Configuration additions
4. COSAL Part I changes

4-62. Which of the following is NOT one of the more common problems with the APL?

1. Its content is inadequate
2. It has an incorrect document number
3. It is incomplete
4. It contains errors

4-63. Chapter 5 Of the SPCCINST 4441.170, provides, which of the following information?

1. Procedures for maintaining the COSAL during the various life cycles of your ship
2. COSAL user instructions and a troubleshooting guide
3. Information on funding and requisitioning COSAL changes
4. A detailed description and data content of COSAL formats

4-64. Which of the following situations can happen if your ET personnel order parts in large quantities instead of in the required quantities?

1. The "bulk" order will have no effect, and you will have several spares available
2. The number of requisitions over a period of time for the parts may be less than what is required to maintain the storeroom allowance for the parts
3. The storeroom stock for those parts will increase based on the larger quantity order, ensuring that the parts will be available in the storeroom when you need them
4. The COSAL allowance will ultimately increase the allowance quantity. This will cause overstock of the parts for all ships with the same parts requirement

- 4-65. Which of the following statements best describes your part in supply efforts as an ET1 or ETC?
1. Respect supply personnel, but check on your requests frequently
 2. Maintain careful concern and involve yourself with parts support
 3. Stock as many parts in divisional spaces as you can to ensure you have parts available
 4. Allow supply to do their job; do not interfere, because it will only slow down the supply effort

